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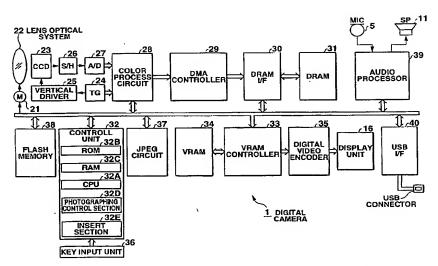
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(54) Title: IMAGE SENSING DEVICE, IMAGE EDIT METHOD, AND STORAGE MEDIUM FOR RECORDING IMAGE EDIT



(57) Abstract: An image sensing device that can photograph and play back a moving image simplifies and executes an edit operation for forming one moving image by inserting another image in the middle of a given moving image. A device includes a flash memory (38) which records moving image data, a key input unit (36) which designates an arbitrary time position in the moving image data recorded in the flash memory (38), and a control unit (32) which starts photographing of an image on the basis of designation of the time position, inserts image data obtained by photographing in the moving image data on the basis of the designated time position, and plays back the obtained moving image data.

 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agen	t's file reference	FOR FURTHER	see Notification of (Form PCT/ISA/22	f Transmittal of Interr 20) as well as, where	national Search Report applicable, item 5 below.
03S1371P	ation No	ACTION		(Carling) Data it. 5	
International applic	ation No.	International filing date (da	iy/montn/year)	(Earliest) Priority L	Date (day/month/year)
PCT/JP 03/1	5111	26/11/	2003	26	/12/2002
Applicant					
CASIO COMPU	rer co., Ltd.				
This International according to Artic	Search Report has been le 18. A copy is being tra	n prepared by this Internation	nal Searching Authol Bureau.	ority and is transmitte	ed to the applicant
	•	of a total of4 a copy of each prior art doc		report.	
1. Basis of the	report	-			
		international search was car ess otherwise indicated und		is of the international	application in the
☐ th	ne international search wuthority (Rule 23.1(b)).	as carried out on the basis	of a translation of th	ne international applic	cation furnished to this
		d/or amino acid sequence	disclosed in the int	ternational application	n, the international search
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l in	ed together with the inte	rnational application in com	puter readable form	1.	
☐ fu	rnished subsequently to	this Authority in written form	n.		
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		sequently furnished written s filed has been furnished.	sequence listing do	oes not go beyond the	e disclosure in the
th	ne statement that the info urnished	ormation recorded in compu	er readable form is	identical to the writte	en sequence listing has been
′	ertain claims were fou	nd unsearchable (See Box	1).		
3. 🗍 U	nity of invention is lac	king (see Box II).	,		
4. With regard to	o the title ,				
X th	e text is approved as su	bmitted by the applicant.			
th th	e text has been establis	hed by this Authority to reac	as follows:		
X th	ne text has been establis	bmitted by the applicant. hed, according to Rule 38.2 date of mailing of this interi	(b), by this Authority national search repo	y as it appears in Boo	k III. The applicant may, s to this Authority.
6. The figure of	the drawings to be publ	ished with the abstract is Fig	jure No.	_5	
a:	s suggested by the appli	cant.			None of the figures.
b	ecause the applicant fail	ed to suggest a figure.			
X bo	ecause this figure better	characterizes the invention.			

TIONAL SEARCH REPORT

A. CLASSII	FICATION OF SUBJECT MATTE	R
IPC 7	G11B27/036	

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{G11B} & \mbox{H04N} & \mbox{G06K} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	US 2001/026644 A1 (ENDO YOSHIYUKI ET AL) 4 October 2001 (2001-10-04) abstract figures 3-5,10 paragraph '0004! paragraphs '0012! - '0018! paragraphs '0026! - '0029! paragraphs '0074! - '0095!	1-18
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 01, 31 January 2000 (2000-01-31) & JP 11 275512 A (SANYO ELECTRIC CO LTD), 8 October 1999 (1999-10-08) cited in the application abstract	1-18

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
Date of the actual completion of the international search 25 May 2004	Date of mailing of the International search report 02/06/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Valencia, E

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C.(Continu Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	Ondition of document, with indication, where appropriate, of the relevant passages	neevall to claim No.
A	US 6 052 508 A (MINCY JEFFREY WAYNE ET AL) 18 April 2000 (2000-04-18) abstract column 1, line 36 - line 65	1-18
Α	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 09, 30 July 1999 (1999-07-30) & JP 11 103382 A (CANON INC), 13 April 1999 (1999-04-13) abstract	5,10,14, 18

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INTER TIONAL SEARCH REPORT

Information on patent family members

lational	Application No
PCT/JP	03/15111

	Publication date		Patent family member(s)		Publication date
A1	04-10-2001	JP	2001177764	Α	29-06-2001
Α	08-10-1999	NONE			
A	18-04-2000	AU CA EP JP WO	2285366 0972404 2001519119	A1 A1 T	30-10-1998 15-10-1998 19-01-2000 16-10-2001 15-10-1998
Α	13-04-1999	NONE			
	A	A1 04-10-2001 A 08-10-1999 A 18-04-2000	A1 04-10-2001 JP A 08-10-1999 NONE A 18-04-2000 AU CA EP JP WO	A1 04-10-2001 JP 2001177764 A 08-10-1999 NONE A 18-04-2000 AU 6592098 CA 2285366 EP 0972404 JP 2001519119 WO 9846017	A1 04-10-2001 JP 2001177764 A A 08-10-1999 NONE A 18-04-2000 AU 6592098 A CA 2285366 A1 EP 0972404 A1 JP 2001519119 T WO 9846017 A1